

Name of Work: Construction of shed for Physics Dept. Lab. At Bl-04 of IIT Patna, Bihta Campus.

June, 2024

BID DOCUMENT

Indian Institute of Technology, Patna



Name of work: Construction of shed for Physics Dept. Lab. At Bl-04 of IIT Patna, Bihta Campus.

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Indian Institute of Technology Patna

1. NOTICE

Indian Institute of Technology, Patna invites the Percentage rate e-NIT for Construction of shed for Physics Dept. Lab. At Bl-04 of IIT Patna, Bihta Campus. IIT Patna invites single bid limited tender from the only empaneled civil contractors at IIT Patna for the following works:-

	NIQ No.	IITP/IWD/AZ/ /2024, dated 05/06 /2024
2	Name & brief scope of Works	Construction of shed for Physics Dept.
		Lab. At Bl-04 of IIT Patna, Bihta Campus.
Market Market Control		
3	Estimated cost put to tender (ECPT)	Rs.4, 99, 798/-
4.	EMD Amount	Rs. 9996/- put to tender through Sbi-collect to Registrar IIT Patna
5.	Tender Cost	Rs. 1000/- including of GST to be deposited through
		SBI-i- collect to Registrar IIT Patna at Patna, Receipt
		to be enclosed.
6.	Date and Time for	06/06/2024 up to 06:30 P.M.
	Issue/Publishing of	
	tender	
7.	Last date of submission of tender	13/ 06 /2024 up to 2:30 PM
8.	Techno Financial bid opening	14 / 06 /2024 at 2:30 PM
9.	Financial bid opening	14/06/2024 at 2:30 PM
10.	Retention Money	5% of the total bill will be deducted as retention money and will be returned after defect liability period (DLP) of one year. No interest will be paid on this.
11.	Bid validity	120 days from opening date of technical bid
12.	Defect Liability period	Six Months from the date of completion to the satisfaction of IITP.
13.	Period for Completion	45 days
14	Guarantee (FG)	Submit PG @5% of the tender value at the time of receiving of work order by thr L-1 Vender.



- A) Documents to be submitted along with techno-financial bid:
- (a) Scanned copies of EMD and tender cost receipts.
- (b) Annexure-I
- 1. The tender form/bidder document may be downloaded from the website: https://eprocure.gov.in/eprocure/app and https://eprocure.gov.in/eprocure/app on line submission of Bids through Central Public Procurement Portal (https://eprocure.gov.in/eprocure/app) is mandatory. Manual/Offline bids shall not be accepted under any circumstances.
- 2. Tenderers/bidders are requested to visit website https://eprocure.gov.in/eprocure/app and https://eprocure.gov.in/eprocure/app are a procure/app and a procure/app and a procure/app
- 3. In case, any holiday is declared by the Government on the day of opening, the tenders will be opened on the next working day at the same time. The Institute reserves the right to accept or reject any or all the tenders.
- 4. Earnest money Deposit (EMD) of Rs.9996/- * (Rupees Nine Thousand Nine Hundred Ninety Six only) to be deposited in the institute's account through SBI i collect and the receipt of submission is to be uploaded along other techno financial documents. For details regarding submission of EMD, the webpage with following link may be visited: https://www.iitp.ac.in/images/pdf/snp/SBI%20I-Collect.pdf.
- * (Being a works contract no exemption is allowed to any MSME registered vender/Bidder.)

INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR e- TENDERING

- a. Information and instructions for Contractors will form part of NIT and to be uploaded WWW.EPROCURE.GOV.IN/IITPATNA website.
- b. The bid document consisting of scope of works and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website <u>WWW.EPROCURE.GOV.IN/IITPATNA</u>. But the bid can only be submitted after uploading the mandatory scanned documents as mentioned in Page 5 of NIT document in favour of Registrar, IIT Patna.
 - c. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.



- d. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
- e. Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the website.
- f. Tender documents consisting of specifications, schedule of quantities of the various classes of work to be done and the set of terms & conditions of contract to be complied with by the contractor whose tender may be accepted and other necessary documents can be seen on website <a href="https://www.eprocure.com/www.eprocure.c
- g. The information and instructions for tenderers / bidders posted on the web-site shall form part of bid/tender documents.
- h. The bid can only be submitted after scanning and uploading the mandatory details within the period of tender submission date as mentioned in tender notice.
- i. This Notice Inviting Tender shall form a part of the contract document. Online bid documents submitted by intending bidders shall be opened only of those bidders, whose documents submitted online are found in order.
- j. The competent authority does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all the tenders received without the assignment of any reason. All tenders in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer shall be summarily rejected.
- k. In case the contractor fails to commence the work specified in the tender documents on 7th day or such time as may be mentioned in the letter of award or from the date of handing over the site wherever is later, the Institute shall, without prejudice to any other right or remedy, be at liberty to forfeit whole of the Earnest Money Deposit (EMD) absolutely.
 - I. Sales tax/GST, purchase tax, turn over tax, Excise duty, Service tax, work contract tax or any other tax and CESS on materials and Labour as applicable shall be paid by the bidder himself. The bidder shall quote his rates considering all such taxes.
- m. Conditional tender will be summarily rejected.
 - 1. ADRESS FOR COMMUNICATION: **EE Civil (AZ)**, Indian Institute of Technology, Patna Bihta, Amhara, Patna, Bihar –801106, Phone 06115-233059

GENERAL TERMS AND CONDITION

- 1. IIT Patna reserves the right to reject any or all tender received without assigning any reasons thereof.
- 2. After awarding the work as per rule. If agency is denied or not performing the work at any stages. IIT Patna may take suitable action against the agency without given any reason thereof.
- 3. The agency is fully responsible for the safety of working personnel.
- 4. All statuary deduction will be deducted as per government rules.
- 5. Payment shall be released through Bank Account after submission of Bill against work done. Agency has to submit the bank's details to which amount may be remitted.
- 6. All disputes are subject to exclusive jurisdiction of competent court and forum in Patna, India only.
- 7. The Executive Engineer with the approval of competent authority shall provide any time extension, if required upon submission of proper justification for the delay by the Contractor during execution of the work keeping into consideration the following points:
 - 1) The contractor must apply to the Engineer-in-charge in writing for extension of time.
 - 2) Such an application must state the grounds that hindered the contractor in the execution of the work within the stipulated time.
 - 3) Such an application must be made within 14 days of the date on which such hindrance arose.
 - 4) The Engineer-in-charge must be of the opinion that the grounds shown for the extension of time are reasonable.
 - 5) A few items at certain locations, IIT Patna reserves right to carry out as their own. No claims whatsoever arising out of this shall be made by the contractor to IIT Patna. The qualified contractor shall be informed in advance for such items/activities.
- 8. IITP will deduct a sum @ 1% of the bill amount, where electricity for the work is used from the institute source. The agency has to make their own arrangement for taking electricity, if not given by IITP.

CLAUSES OF CONTRACT

<u>Clause – I</u>

Compensation for Delay @ 1% per week and part there of maximum to 10% for the work which was completed during the duration beyond the stipulated period of time and no extension granted.



$\underline{Clause - 2}$

Measurements of Works: - All running account and Final bills shall be in computerized Measurement Books (CMB's) and Bills to be submitted by the contractor as per Section-7 of CPWD works manual.

All measurements and levels shall be taken jointly by the Engineer (civil) nominated for the works and by the contractor or his authorized representative in consultation with Executive Engineer of the works for the works done in the preceding month and such measurements shall be duly signed and dated in token of their acceptance. If the contractor objects to any of the measurements recorded, a note shall be made to that effect with reason and signed by both the parties and to be brought to the notice of EE in-charge of works for its settlement. The duly recorded computerized running account bills with "certificate of payment" and corresponding progress photographs shall be forwarded to Executive Engineer at Institute Works Dept. for release of payment of bills. The amount admissible will be paid by 10th working day after the day of receiving of the bill.

Clause – 4

Contractor Liable for damages, defects during maintenance period: - If the contractor or his working people or servants shall break, deface, injure or destroy any part of building in which they may be working, or any building, road, road curb, fence, enclosure, water pipe, cables, drains, electric or telephone post or wires, trees, grass or grassland, or cultivated ground contiguous to the premises on which the work or any part is being executed, or if any damage shall happen to the work while in progress, from any cause whatever of if any defect, shrinkage or other faults appear in the work within twelve months after a certificate final or otherwise its completion shall have been given by the EE CIVIL as aforesaid arising out of defect or improper materials or workmanship the contractor shall upon receipt of a notice in writing on that behalf make the same good at his own expense or in default the Engineer in charge cause the same to be made good by other workmen and deduct the expense from any sums that may be due or at any time thereafter may become due to the contractor, or from his security deposit or the proceeds of sale thereof or of a sufficient portion thereof. The security deposit of the contractor shall not be refunded before the expense of twelve months after the issue of the certificate final or otherwise, of completion of work, or till the final bill has been prepared and passed whichever is later.

Clause 5: Minimum Wages and age of workers:

No labour below the age of 18 years shall be employed on the work. The contractor shall comply with all the provision of the minimum wages Act, 1948, amended from time to time and rules framed there under and other labour laws affecting contract labour that may be brought from time to time.

CLAUSE 6: Directions for execution of works.

All works to be executed under the contract shall be executed under the direction and subject to the approval in all respect of the EE CIVIL of the Institute who shall be entitled to direct at what point or points and in what manner they are to be commenced, and from time to time carried on.

<u>Jurisdiction</u>: all matters arising out or in any way connected with this contract shall be deemed to have arisen in Patna and only the courts in Patna shall have jurisdiction to determine the same.

CLAUSE 8: EXECUTION OF ITEMS OTHER THAN B.O.Q ITEMS

If any items are required to be executed, other than the B.O.Q items for the completion of works, then the item will be taken from DSR' 2021. The payment for this items will be made as per the DSR'2021 rates if the item is present in DSR or as per the market rate analysis for the items not present in the B.O.Q. By applying the percentage rate plus or minus on the DSR rate.

Q.

ANNEXURE - I

BANK DETAILS OF THE FIRM

Name of the Firm:

Registered / Postal Address:

1.	Permanent AccountNumber	
	(PAN) No	
2.	GST Registration No.	
3.	BANK DETAILS:	
a.	Bank Name	
b.	Branch Address	
c.	Account No	
d.	Type of Account (Current/Savings)	
e.	MICR No.	
f.	IFSC Code	
g.	E-mail ID and Address	
1		

Date: Name of the Authorized Signatory



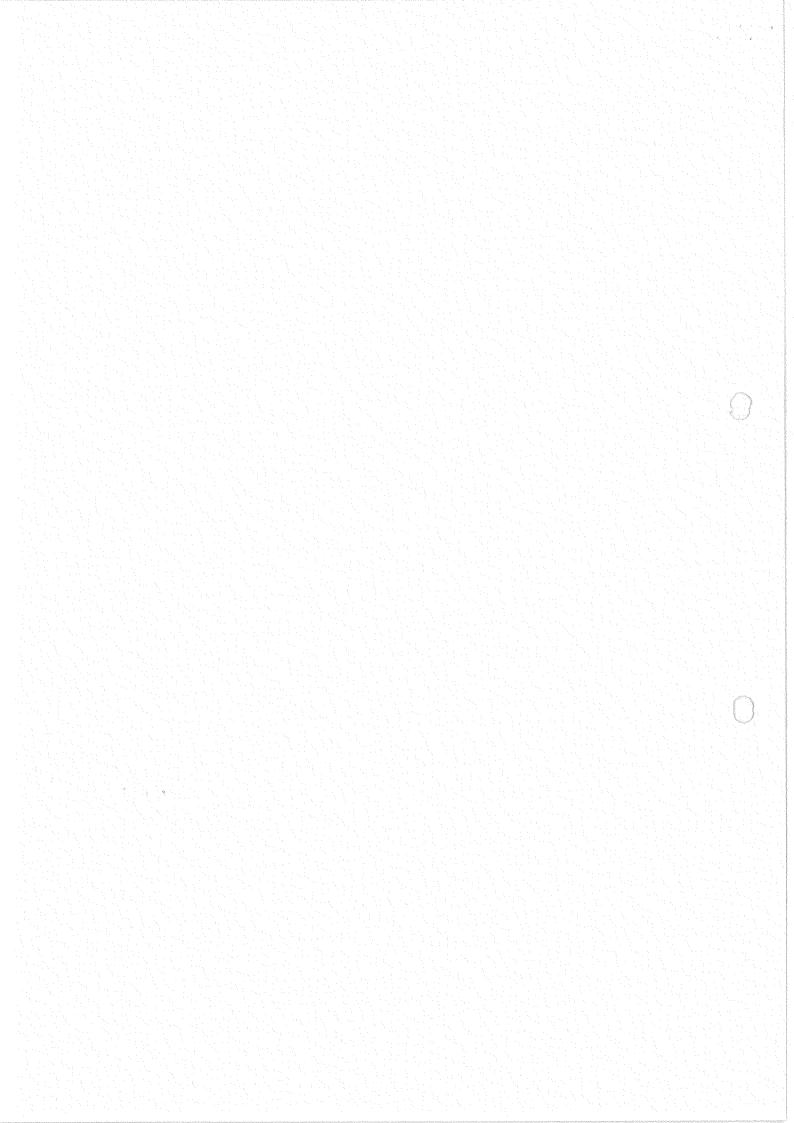
LIST OF APPROVED MAKE OF MATERIALS:

Specification/brands names of materials (Refer materials, whichever are applicable for the scope of work) and finishes approved by the Engineer-in-Charge are List below. However, approved equivalent material and finishes of any other specialized firms may be used, in case it is established that the brands specified below are not available in the market and subject to written approval of the alternate brand by the Engineer-in-Charge of IIT Patna. Wherever available, ISI brand materials should be used, in case of non-availability of ISI brand materials, written approval required from IIT Patna.

Sl. No	MATERIALS	APPROVED MAKE
1.	MS pipe, Flat, Angle, channels	JINDAL, TATA, RINL, Apollo, Kamdhenu
2.	Glass	Modi Guard, Saint-Gobain ISI marked
3.	Pre-laminated board	ASIS, NOVAPAN, ARCHID PLY, CENTURY, KITPLY etc.
4.	Enamel Paint, Primer	ASIAN, NEROLAC, BURGER, BRITISH
5.	False ceiling calcium silicate tiles	Aerolite, Gypsum India, Saint-Gobin, Remco (Hilux), GyproC
6.	PVC pipe and fittings	Supreme, Prince, Ashirwad
7.	Cement	Ultratech, Jaypee, Ambuja
8.	Al-Section	Nalco, Alco, ISI marked,
9,	GI profile sheet	JINDAL, TATA,JSW

Head IWD

M Jay



Rensed estimate.

Reviesed Estimate

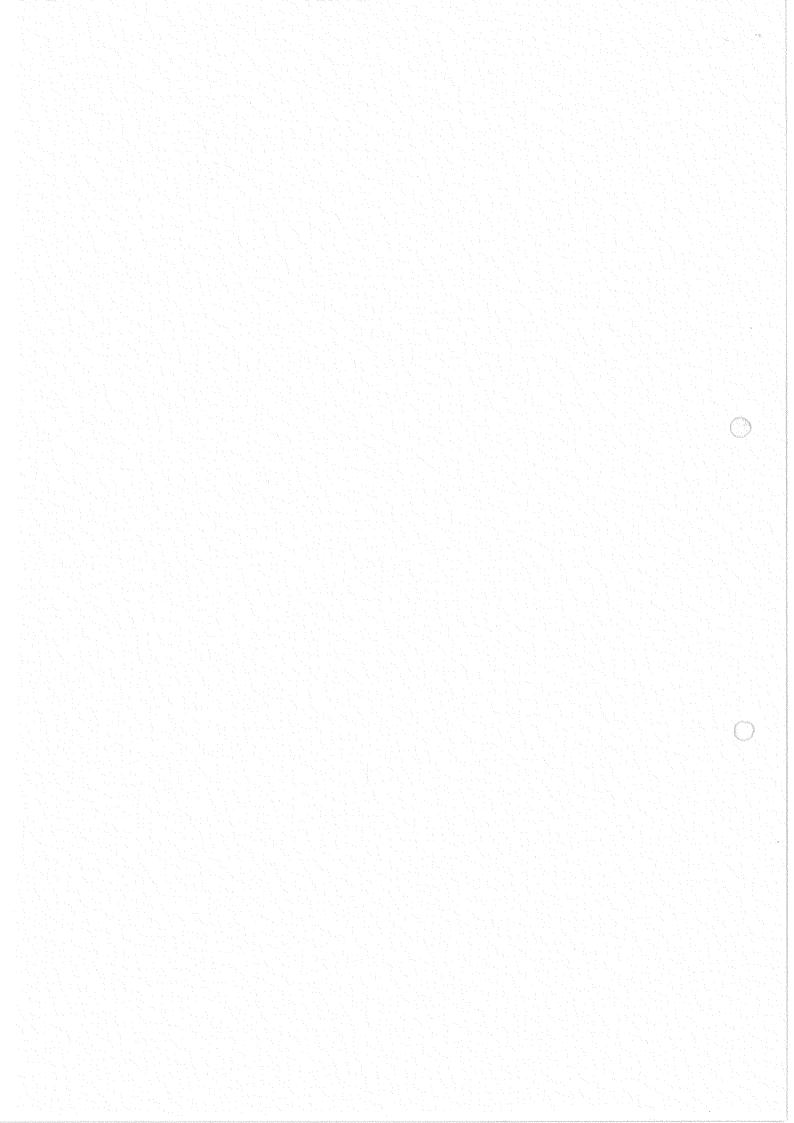
	BOQ of Construction of Temporary shed of Civil Dept. Lab. Near Workshop 16A at IIT Patna	ear W	orksho	p 16A at	IIT Patna			
SS		No.	L,m I	B,m, Av.	H,m, Av.	Qty units	As per DSR s 2023 Rate, Rs.	Amount, Rs.
н :	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.							
	1	-						
	2.6.1 All kinds of soil, Qty-		45.74	0.3	0.75	10.290		
	Foundation	12	0.4	0.4	0.75	1.440		
	Т					11.730 Cu.m.	. 177.50	2082.08
1a.	2.33 Felling trees of the girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material.							
	\neg					1.000 each	532.35	532.35
1p.	2.31 Clearing jungle including uprooting of rank vegetation, grass, brush wood,trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared. Squ	, .	∞	r		40 000 sam		00 102
1c.			2	5	н	25.000 cum	93.05	2326.25
٦	3 25(1) Eventoding supplying and filling of least that the first of the	-				2000		03:03
7		-				70.800 cum	700.50	49595.40
٨	2.25 Filling available excavated earth (excluding rock) in tranched which eight of foundations see in Junes and	\vdash	-					
າ			45.74	0.25	0.1	1.14 Cu.m.	. 196.00	223.44
4							***************************************	
	5.9.16 Edges of slabs and breaks in floors and walls		45.74			45.74 m		
	Total					45.74 m	208.55	9539.08
Ŋ	5.2 Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement:							4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	5.2.2 1.1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)							
		12	0.4	0.4	0.75	1,440		
	Plinth beam	T	45.74	0.15	0.25	1.720		
	Flooring		15	7.37	0.1	11.060		
	Total					14.220 cum	10852.95	154328.95
9	5.22 Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.					:		
		1	1		-			

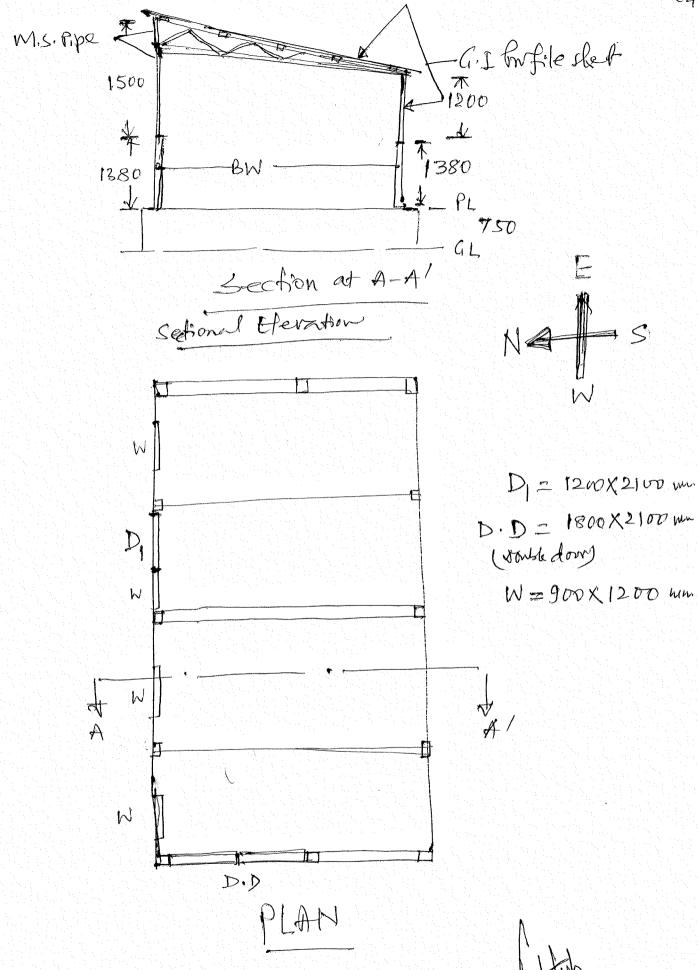


L	5.22.6 Thermo-Mechanically Treated bars , In column(foundation) -12 mm dia and In floor -8mm Dia TMT har						
	used				205.000 kg	107.85	22109.25
	4.1 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth layer						
Ш	over top of the brick work				0.000	\$. 5 ·	
Ш		45.74	0.125	0.05	0.290 m3		
∞	Steel Work:				0.290 m3	7780.30	2256.29
	9.48 Providing and fixing M.S. grills of required pattern in frames of window setc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.						
	9.48.1 Fixed to steel windows /door by welding, Qty- door-1.5*2.10 + 0.9*1.2*2 m2= 5.31 m2 @20 kg/m2= 106.20kg			·			
	10.10 Fixing standard steel plazed doors windows and wantilators in the last decision of the				106.000 kg	219.1	23224.60
Q	panes with glazing clips and special metal sash putty of approved make, or metal beading vith screws, fonly steel windows, glass panes cut to size and glazing clips or metal beading with screws, shall be supplied by department free of cost. 10.10.1 Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) Qty- 4*.9*1.2=4.32 m2@20 kg/m2=86.40 kg						
18	10.16 Steel work in huilt in tuhular (round courses as seed work in huilt in tuhular (86.400 kg	82.45	7123.68
			TANIDO N				
	10.16.1 Hot finished welded type tubes purling Size- post (60*60*2.6mm) +truss 40*40*2.6 mm + binder & purlin 25*25*2.6 mm, Total= 745 kg				745.000 kg		
	ms not act size 40 4 IIIII Qty-tot Kg				181.000 kg		
Ħ	only labour/fitting and fixing charge, materials supplied by IWD. 13.62 Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:		3.		926.000 kg	06.09	56393.40
	13.62.1 Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture, Qty-Grill and purline and door= Qty- 40 m2				40 Sa	37.5.75	00 0100
12	12.50 Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm + 0.05 %, total coated thickness with zinc coating 120 gsm as per IS: 277 in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoidscratches while transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self dril ing /self tapping screws of size (5.5x 55mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting tosize and shape wherever required. Roof-	r. Q	ν το			07077	
	1 00	12:52	0.431		131.18U sqffi	The second second	



1	Only labour/ fitting and fixing charge materials and living charge materials	45.80		1.50	68.700		
1	1 Second Trees, and the second state of the second state of the second s	2.40		2.10	5.040		
1	6 13 Half brick masonov with common burnt class F D C / total				204.920 sqm	120 10	24610.90
13	pinth level up to floor V level.					<u> </u>	24010.03
	6.13.2 Cement mortar 1.4 (1 cement :4 coarse sand)						
4	13.1 12 mm cement plaster finished :	45.74		1.38	63.121 sqm	1123.80	70935.60
	13.44 Dictommentary 114.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4	45.74		1.38	126.242 sqm	333.35	42082 90
15	no.41 Disternipening with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gms/litre, of approved manufacturer, of required shade and colour complete, as per manufacturer's specification. 13.41.1 Two or more coats on new work. Oty- same as item no. 12= Interior		1		-		00.20
19					63.121 sam	185.65	14 045 45
	primer applied @ 2.20 kg/10 sqm) sqm				0.00	00.00	11/10.43
	21.2 Droviding and fiving all and an analysis and five all and an analysis analysis and an ana	1			ps.250 sqm	160.60	10960.95
17	rubber / neoprene gasket etc. complete as per the architectural drawings and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-incharge. (Cost of aluminium snap beading shall be paid in basic item): 21.3.1 With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm) Qty=4*.9*1.2=4.32 m2						
	Uty- same as item no 12= Exterior			-	4.320 sqm	11/6.80	5083.78
				Iotal			499797.56
					Say, Rs.	4, 99	4, 99, 798/-only
						4	A E CIVIL Y CAR





STATION STATES

